

lempiji, (Horsf.), and its affinèd species, concurs with me in the propriety of bestowing a separate title on the species inhabiting the Western Ghauts of India. It is chiefly characterized by the ruddy ground-colour of its plumage, and the tarsal feathers being nearly, if not quite, immaculate. This and *Scops griseus*, Jerd., form two well-marked species, both differing from Javan examples of *E. lempiji*, (Horsf.), the first inhabiting the Western Ghauts, the second the Eastern, and also the forests in the vicinity of Maunbhoom.

XLIX.—*On some Species of Probosciferous Gasteropods which inhabit the Seas of Japan.* By ARTHUR ADAMS, F.L.S., Staff-Surgeon, R.N.

SINCE I published my paper, in the 'Journal of the Linnean Society' for 1863, on the species of Fusidæ which were found by myself in Japan, I have seen the elaborate work of Dr. Schrenck on the Mollusca of Amur-Land and the Seas of Northern Japan. He there figures a very fine species of *Neptunea*, a group which seems to have its headquarters in northern seas, which he has named *Buccinum pericochlion*, and which is very similar in form to the elegant shell named by Dr. Baird *Chrysodomus abulatus*, from Vancouver's Island. *Buccinum yessoensis*, Schrenck, which I found in Aniwa Bay, in the island of Saghalien, belongs, I believe, to the genus *Urosalpinx*, recently established by Stimpson, as does also *Euthria badia*, A. Ad., from Tsus-Sima. The *Fusus lineolatus*, Dkr. (*Buccinum Dunkeri*, Küst.), is a Cape species of *Cominella*, but is stated by Schrenck to be also found in Hakodadi Bay.

In the 'Annals and Magazine of Natural History' for March 1863, I described twelve species of *Siphonalia*, a Fusoid genus which seems to represent *Neptunea* in the south of Japan. In the 'Proceedings of the Zoological Society' for 1862 the species of Muricidæ found in Japan are enumerated; and in the 'Journal of the Linnean Society,' vol. vii., I have given a list of the species of Mitridæ found by myself in Japanese waters. I now present the results of my personal knowledge of some other families of Probosciferous Gasteropods which inhabit the seas of Japan.

Fam. Tritoniidæ.

Genus TRITONIUM, Link.

T. Sauliæ, Rve. (*Triton*), Conch. Icon. Mon. Triton.

Hab. Tatiyama, Tsusaki, Takano-Sima, Bay of Yeddo.

Genus SIMPULUM, Klein.

1. *S. olearium*, Linn. (*Murex*), Syst. Nat. ed. 12.

Murex costatus, Born.

— *parthenopus*, Dillw.

Triton succinctus, Lamk.

— *olearius*, Rve. sp. 32.

Hab. Tatiyama.

2. *S. lirostoma*, A. Ad.

S. testa ovato-fusiformi, rufo-fusca; anfractibus 6, convexis, varice unico postice complanato, longitudinaliter plicatis, transversim crenulatis, ad plicas nodulosos et liris duplicis instructis, interstitiis cancellatis; apertura ovata, labio transversim corrugato-plicato, plicis postice et antico validioribus, canali elongato vix recurvo; labro extus fimbriatim varicoso, intus valde lirato, margine crenato.

Hab. Simidsu.

A species of ordinary form, with a strongly lirate aperture and with the transverse ridges and liræ all double.

3. *S. papillosum*, A. Ad.

S. testa acuminato-ovata, alba, punctis rubris ornata, spira acuta, aperturam æquante; anfractibus 6, planis, serie tuberculorum rubrorum circumcinctis ad suturas monile granulorum instructis; anfractu ultimo seriebus tribus granularum quarum duabus anterioribus parvis, lirisque paucis granulosis intermediis, anfractu ultimo varice unico ad latus sinistrum; apertura subcirculæ, labio transversim rugoso-plicato, postice tuberculo valido dentiformi instructo, canali mediocri dextrorsum inclinato; labro extus varicoso, intus lævi, postice emarginatione canaliculato instructo.

Hab. Takano-Sima.

A white shell, with red papillose tubercles and rows of necklace-like intermediate liræ.

4. *S. nodiliratum*, A. Ad.

S. testa ovato-fusiformi, alba, spira quam apertura longiore; anfractibus 6, planis, subimbricatis, ad suturas excavatis, longitudinaliter plicatis, plicis liris transversis validis nodulosis decussatis, interstitiis interdum lirula granulosa instructis; apertura ovato-oblonga; labio transversim rugoso-plicato; labro intus nodoso-plicato, extus varice crasso instructo, canali brevi, angusto, vix recurvato.

Hab. Japan. Coll. Cuming.

A small, white, ovate species, with nodosely lirate whorls.

5. *S. tringa*, A. Ad.

S. testa ovato-fusiformi, spira quam apertura longiore, fusca fulvo rufoque variegata, epidermide tenui, pilosa obtecta; anfractibus 8, subdistortis, varicibus paucis irregulariter nodoso-plicatis instructis, in anfractu ultimo quatuor, prope aperturam varice unico duplicato, prope labrum varicibus duobus nodiformibus sulcis longitudinalibus et liris transversis decussatis; apertura ovata; labio circumscripto, transversim lirato, rostro elongato, tenui, rectiusculo; labro intus nodoso-plicato, extus valde varicoso.

Hab. Uraga.

A small species, with the aperture resembling the profile of a plover's head, and with a slender straight beak at the fore part.

Genus CABESTANA, Bolt.

1. *C. labiosa*, Wood (*Triton*), Ind. Test. Suppl. pl. 5. f. 18.

Tritonium rutihum, Mke.

Hab. Uraga, 21 fathoms.

2. *C. dorsuosa*, A. Ad.

C. testa ovato-fusiformi, epidermide tenui fusca induta, spira quam apertura longiore; anfractibus 5, varice unico rotundato, nodoso-plicato, plicis in anfractu ultimo antice obsoletis, transversim poreatis, porcis duplicibus, interstitiis liris duabus crenulatis; apertura ovata; labio antice transversim subplicato, canali recto brevi; labro extus varicoso, intus nodoso-lirato.

Hab. Tatiyama.

A fuscous-brown species, strongly nodose on the back of the last whorl.

Genus GUTTERNIUM, Klein.

- G. moritinctum*, Rve. (*Triton*), Conch. Icon. sp. 49.

Hab. Tatiyama.

Genus EPIDROMUS, Klein.

E. reticosus, A. Ad.

E. testa ovato-fusiformi, fulva, hinc et illuc maculis rufescentibus tincta, spira quam apertura longiore; anfractibus 7, convexis, longitudinaliter plicatis, plicis rotundis, distantibus, in anfractu ultimo nodo magno variciformi instructo, transversim valde liratis, liris æqualibus, regularibus, subdistantibus; apertura anguste ovata; labio transversim rugoso-plicato, canali brevi, recto, oblique truncato; labro intus valde lirato, margine extus varice crasso instructo.

Hab. Japan. Coll. Cuming.

A small, reticulate, *Phos*-like species, with regular plicate whorls and a short canal.

Genus DISTORSIO, Bolt.

D. decipiens, Rve. (*Triton*), Conch. Icon. sp. 102.

Hab. Satanomosaki, 55 fathoms; Okosiri, 35 fathoms.

Genus BURSA, Bolt.

B. subgranosa, Beck (*Ranella*), Sow. Conch. Illustr. *Ranella*, f. 18; Reeve, sp. 1.

Ranella Beckii, Kien.

Hab. Seto-Uchi, Tomo.

Genus ARGOBUCCINUM, Klein.

A. olivator, Meusch. (*Murex*), Mart. Conch. vol. iv. pl. 128. f. 1229.

Gyrineum natator, Bolt.

Ranella tuberculata, Brod. & Sow. Proc. Zool. Soc. 1832.

Hab. Tatiyama.

Genus EUPLEURA, H. & A. Ad..

E. perea, Perry (*Biplex*), Conch. pl. 4. f. 5.

Ranella pulchra, Gray, Sow. Conch. Illustr. *Ranella*, f. 19.

Hab. Kuro-Sima, 52 fathoms.

Fam. Buccinidæ.

Subfam. BUCCININÆ.

Genus BUCCINUM, Linn.

1. *B. glaciale*, Linn. Syst. Nat. ed. 12. p. 1204; Rve. sp. 18.

Tritonium glaciale, Müll.

Buccinum carinatum, Phipps.

— *angulosum*, Gray, Beech. Voy. pl. 36. f. 6.

Hab. Cape Notoro, Aniwa Bay, Saghalien, Sio-Wuhu.

2. *B. undatum*, Linn. Syst. Nat. ed. 12. p. 1204; Rve. sp. 3.

Buccinum vulgare, Da Costa.

— *striatum*, Penn.

— *solutum*, Dillw.

— *labradorensis*, Rve.

— *pyramidale*, Rve.

— *pelagicum*, King.

— *schuntaricum*, Schr.

Hab. Aniwa Bay, Gulf of Tartary, Sio-Wuhu.

3. *B. japonicum*, A. Ad. Ann. & Mag. N. H. 1861.

Hab. Okosiri, 35 fathoms.

A small but exquisite species.

Ann. & Mag. N. Hist. Ser. 4. Vol. v.

4. *B. ochotense*, Midd. Reise in Sibir. t. 10. f. 12, t. 9. f. 5.

Hab. Saghalien (*Schr.*).

Genus VOLUTHARPA, Fischer.

1. *V. ampullacea*, Midd. (*Bullia*), Beitr. zu einer Malac. Rossica, ii. p. 180.

Hab. Aniwa Bay, Saghalien (17 fathoms), Gulf of Tartary (29 fathoms).

2. *V. Perryi*, Jay (*Bullia*), Perry's Exp. to Japan, Appendix.

Hab. Hakodadi Bay.

3. *V. Fischeriana*, A. Ad.

V. testa ovata, tenui, fragili, epidermide fusca, tenui, crebre ciliata induta; spira brevissima, apice subpapillato; anfractu ultimo ventricosus, sutura impressa; apertura ampla, dilatata, intus alba, antice emarginata; labio callo albo lævissimo tenui oblecto; labro margine arcuato, semicirculari.

Long. 1 in., diam. 11 lin.

Hab. Korea Strait, South Japan.

A very neat species from the south of Japan, intermediate in form between *V. ampullacea*, Midd., and *V. Perryi*, Jay. It is a thinner and smaller shell, with a hispid epidermis, the short hairs being arranged in close-set cross rows, giving the surface a reticulated appearance.

Subfam. PURPURINÆ.

Genus TRIBULUS, Klein.

1. *T. echinatus*, Blainv. (*Ricinula*), Nouv. Ann. du Mus. pl. 11. f. 2; Reeve, Conch. Icon. (*Purpura*) sp. 33.

ab. Tatiyama, Sado.

2. *T. tumulosus*, Rve. (*Purpura*), Conch. Icon. sp. 55.

Hab. Tsus-Sima, Yeddo Bay (*Lischke*).

3. *T. Bronni*, Dkr. (*Purpura*), Moll. Japan. pl. 1. f. 23.

Hab. Nagasaki, Tatiyama.

Genus STRAMONITA, Schum.

1. *S. hæmastoma*, Linn. (*Buccinum*), Syst. Nat. ed. 12. p. 1202.

Purpura hæmastoma, Rve. sp. 21.

— *cornuta*, Mke.

Hab. Hakodadi Bay.

2. *S. luteostoma*, Chem. (*Buccinum*), Conch. Cab. vol. ix. p. 83, pl. 187. f. 1800, 1801.

Purpura luteostoma, Rve. sp. 35.

Hab. Tsus-Sima, Tatiyama (*A. Ad.*); Hakodadi (*Schr.*), Yokohama (*Lischke*).

3. *S. undata*, Lamk. (*Purpura*), Hist. Nat. ed. 2. t. 10, p. 67.

Purpura rustica, Lamk.

Hab. Hakodadi (*Schr.*).

Genus POLYTROPA, Swains.

1. *P. lapillus*, Linn. (*Buccinum*), Syst. Nat. ed. 12. p. 1202.

Buccinum filiosum, Gmel.

Purpura lapillus, Lamk.

— *imbricata*, Lamk.

— *bizonalis*, Lamk.

— *fimbriata*, Lamk.

— *squamosa*, Lamk.

— *Freycineti*, Desh.

— *attenuata*, Rve. ?

— *analoga*, Forbes.

Hab. Cape Noto, Saghalien, Hakodadi, Rifunsiri.

2. *P. decemcostata*, Midd. (*Purpura*), Beiträge zu einer Malac. Rossica, Taf. 9. f. 1, 2, 3.

P. canaliculata, Ducl.

Hab. Cape Tofuts, Aniwa Bay.

3. *P. crispata*, Chemn. (*Buccinum*), Conch. Cab.

P. septentrionalis, Rve. (*Purpura*), Conch. Icon. sp. 50.

P. plicata, Mart.

P. lactuca, Esch.

Hab. Aniwa Bay, Saghalien, Olga Bay, Vladimir Bay.

Genus SISTRUM, Montf.

1. *S. tuberculatum*, Blainv. (*Ricinula*), Nouv. Ann. du Mus. pl. 9. f. 3; Reeve, Conch. Icon. (*Purpura*) sp. 11.

Purpura marginella, Blainv.

— *granulata*, Ducl.

Hab. Sado, Tsus-Sima, Tatiyama.

2. *S. sidereum*, Rve. (*Ricinula*), Conch. Icon. sp. 14.

Hab. Takano-Sima.

Genus ENGINA, Gray.

1. *E. acuminata*, Rve. (*Ricinula*), Conch. Icon. sp. 52.

Hab. Tsus-Sima.

2. *E. concinna*, Rve. (*Ricinula*), Conch. Icon. sp. 35.

Cantharus Menkeanus, Dkr. Moll. Japon. pl. 1. f. 7.

Hab. Kino-O-Sima.

Genus PUSIOSTOMA, Swains.

1. *P. mendicarium*, Linn. (*Buccinum*), Rve. Conch. Icon. (*Ricinula*) sp. 8.

Columbella mendicaria, Lamk.

Hab. Awa-Sima.

2. *P. trifasciatum*, Rve. (*Ricinula*), Conch. Icon. sp. 41.

Hab. Okino-Sima.

Subfam. RAPANINÆ.

Genus RAPANA, Schum.

1. *R. bezoar*, Linn. (*Buccinum*), Syst. Nat. ed. 12.

Murex rapiformis, Born, var. *b*.

Purpura bezoar, Kien.

— (*Rapana*) *Thomasiana*, Crosse.

In Japanese "Nuskai."

Hab. Simoda, Yokohama, Hakodadi.

2. *R. bulbosa*, Soland. (*Buccinum*), Dillw. Cat. of Shells, vol. ii. p. 631.

Murex rapa, Gmel. (not Linn.).

— *rapiformis*, Born, var. *a*.

Rapa crassa, Mart.

Murex radix, Meusch.

Pyrula rapa, Lamk.

Hab. Satanomosaki, 55 fathoms.

Genus CORALLIOPHILA, H. & A. Ad.

- C. monodonta*, Quoy & Gaim. (*Purpura*), Moll. Voy. de l'Astr. vol. ii.

Purpura madreporarum, Sow.

Hab. Hakodadi Bay (*Schrénck*).

Genus LEPTOCONCHUS, Rüpp.

1. *L. Peronii*, Lamk. (*Magilus*), Hist. An. s. Vert. vol. x.

Leptoconchus striatus, Rüpp. Trans. Zool. Soc. Lond. vol. i. p. 259, pl. 23. f. 9, 10.

Hab. Kino-O-Sima, in Madreporas.

2. *L. rostratus*, A. Ad. Ann. & Mag. N. II. 1864.

Hab. Kino-O-Sima, in Madreporas.

Subfam. *NASSINÆ*.

Genus *NASSA*, Martini.

- N. mutabilis*, Linn. (*Buccinum*), Syst. Nat. ed. 12. p. 1201 ;
Reeve, Conch. Icon. (*Nassa*) sp. 6.

Buccinum gibbum, Brug.

— *foliosum*, Wood.

Nassa gibba, Roissy.

? — *sufflata*, Gould, Otia Conch. p. 127.

Hab. Takano-Sima, Mososeki, Seto-Uchi.

Genus *NIOTHA*, H. & A. Ad.

1. *N. Cumingii*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851, p. 98.

Hab. Tatiyama.

2. *N. marginulata*, Lamk. (*Buccinum*), Hist. An. s. Vert. vol. x.
p. 182 ; Rve. Conch. Icon. (*Nassa*) sp. 43.

Hab. Satanomosaki, Seto-Uchi.

3. *N. gemmulifera*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851, p. 99.

Hab. Seto-Uchi, Akasi, Kino-O-Sima (25 fathoms).

4. *N. globosa*, Quoy & Gaim. (*Buccinum*), Voy. de l'Astr.,
Zool. vol. ii. tab. 32. f. 25, 27

Buccinum clathratum, Kien. (not Born).

Hab. Japan (*Dkr.*).

5. *N. livescens*, Phil. (*Buccinum*), Zeitschr. f. Mal. 1848, p. 135.

Hab. Japan (*Dkr.*).

6. *N. cæolata*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851 ; Rve.
Conch. Icon.

Hab. Mososeki, Seto-Uchi.

Genus *ZEUXIS*, H. & A. Ad.

1. *Z. varicifera*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851.

Hab. Tsaulian.

2. *Z. siquijorensis*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851 ;
Rve. Conch. Icon. *Nassa*, sp. 53.

Hab. Tsaulian, Tomo, Seto-Uchi.

3. *Z. succincta*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851 ; Rve.
Conch. Icon. (*Nassa*) sp. 80.

Hab. Seto-Uchi, Mososeki.

4. *Z. micans*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851; Rvc. Conch. Icon. (*Nassa*) sp. 140.

Hab. Uraga.

5. *Z. clandestina*, A. Ad.

Z. testa ovato-fusiformi, cinerea, obscure fusco reticulata, lævi; anfractibus planiusculis, supremis lævibus; anfractu ultimo transversim valde sulcato, labro callo circumscripto tecto; apertura subrhomboidea; labro intus valde lirato, margine antice integro.

Hab. Seto-Uchi, Idsuma-Nada, Yobuko.

A somewhat doubtful form of *Zeuxis*, marked obscurely like *Nitidella cribraria*, and having many of the characters of the group *Amycla*. The nearest approach, however, is *Nassa micans*, A. Ad., in which the outer lip is crenulated and the upper whorls are costellate and which has all the characters of a *Zeuxis*.

Genus CÆSIA, H. & A. Ad.

- C. japonica*, A. Ad. (*Nassa*), Proc. Zool. Soc. 1851, p. 110.

Hab. Seto-Uchi, Uraga, Kino-O-Sima, Sado.

Genus HIMA, Leach.

1. *H. fraterculus*, Dkr. (*Nassa*), Moll. Japon. tab. 1. f. 15.

Hab. Tatiyama, Hakodadi, Simoda, Nagasaki.

2. *H. plebecula*, Gould, (*Nassa*), Otia Conch. p. 128.

Hab. O-Sima.

Genus HEBRA, H. & A. Ad.

- H. muricata*, Quoy & Gaim. (*Buccinum*), Voy. de l'Astr. pl. 32. f. 32, 33.

Hab. Tsaulian, Kino-O-Sima.

Genus TRITIA, Risso.

- T. festiva*, Powis (*Nassa*), Proc. Zool. Soc. 1835, p. 95.

Nassa lineata, Dkr. Moll. Japon. tab. 1. f. 22.

Hab. Hakodadi.

Genus AMYCLA, H. & A. Ad.

1. *A. varians*, Dkr. Moll. Japon. tab. 1. f. 17.

? *Buccinum scriptum*, Linn., non *Columbella scripta*, Lamk.

Hab. Tatiyama, Hakodadi, Rifunsiri.

2. *A. fasciolata*, Lamk. (*Buccinum*), Hist. An. s. Vert.

? *Columbella trivittata*, Gld.

Hab. Tsus-Sima, on coral.

3. *A. gausapata*, Gould, (*Columbella*), Otia Conch. p. 71.
Hab. Awa-Sima; Tabu-Sima, on the shore.
4. *A. achatina*, Sow. (*Columbella*), Thes. Conch. pl. 39. f. 126.
Hab. Gotto Islands.

Genus DESMOULEA, Gray.

1. *D. japonica*, A. Ad. Proc. Zool. Soc. 1851.
Nassa japonica, Rve. Conch. Icon. sp. 195.
Hab. Japan (*Dr. Siebold*).
2. *D. crassa*, A. Ad. Proc. Zool. Soc. 1851.
Nassa ponderosa, Rve. Conch. Icon. sp. 196.
Hab. Japan (*Dr. Siebold*).

Genus EBURNA, Lam.

- E. japonica*, Rve. Conch. Icon. (*Eburna*) sp. 3.
Hab. Tatiyama, Simoda, Nagasaki, Sado.

Subfam. PHOSINÆ.

Genus PHOS, Montf.

- P. varicosus*, Gould, Otia Conch. p. 66.
Hab. Satanomosaki, 55 fathoms.

Genus CYLLENE, Gray.

1. *C. pulchella*, Ad. & Rve. Zool. Voy. Sam. pl. 10. f. 11 ;
Sow. Thes. Conch. (*Cyllene*) f. 24, 25.
Hab. Satanomosaki, 55 fathoms.
2. *C. orientalis*, A. Ad. Proc. Zool. Soc. 1850.
Hab. Gotto Islands.
3. *C. glabrata*, A. Ad. Proc. Zool. Soc. 1850; Sow. Thes.
Conch. (*Cyllene*) f. 14, 15.
Hab. Satanomosaki, 55 fathoms.
4. *C. fuscata*, A. Ad. Proc. Zool. Soc. 1850; Sow. Thes.
Conch. (*Cyllene*) f. 16, 17, 18.
Hab. Kuro-Sima.

5. *C. gibba*, A. Ad.

C. testa ovato-acuminata, lævi, crassa, spira attenuata, apice acuto, obsolete transversim sulcata, albida, maculis spadiceis obscure variegata; anfractu ultimo gibboso, inferne tumido, antice trans-

versim valde sulcato; apertura spiram æquante; labio antice rugoso-plicato; labro margine incrassato, intus valde lirato.

Hab. Kino-O-Sima, on the sands.

This is a small gibbous species, with smooth simple whorls and an attenuated pointed spire.

Fam. Fasciolariidæ.

Genus FASCIOLARIA, Lamk.

F. filamentosa, Chemn. (*Fusus*), Conch. Cab. t. 140. f. 1310, 1311.

Neptunea cincta, Link.

Hab. Hakodadi (*Lindholm*), Takano-Sima (*A. Ad.*).

Genus LATHYRUS, Montf.

1. *L. (Plicatella) polygonus*, Linn. Syst. Nat. ed. 12.

Hab. Tatiyama.

2. *L. rhodostoma*, Dkr. (*Turbinella*), Moll. Japon. pl. 1. f. 21.

Hab. Tsaulian.

Fam. Volutidæ.

Subfam. CYMBINÆ.

Genus MELO, Humphr.

M. Broderipii, Gray, Sow. Thes. Conch. (*Melo*) sp. 8, f. 26, 27.

Hab. Japan (*Humphr.*).

Subfam. VOLUTINÆ.

Genus SCAPHELLA, Swains.

S. (Alcithoë) megaspira, Sow. Thes. Conch. (*Voluta*) sp. 38, f. 31, 32.

Voluta liriformis, Kien. (not Swains. or Lam.).

— *Harnillei*, Crosse, Journ. de Conch. 1870, ser. 3. tom. x. pl. 1. f. 5, pl. 2. f. 1.

Hab. Hakodadi Bay, dead on the shore.

Genus FULGORARIA, Schum.

F. fulgura, Mart. (*Voluta*), Sow. Thes. Conch. (*Voluta*) sp. 39, f. 51, 52, 53.

Voluta rupestris, Gmel.

— *fulminata*, Lamk.

Hab. Korea Strait.

Genus LYRIA, Gray.

1. *L. nucleus*, Lamk. (*Voluta*), Sow. Thes. Conch. (*Voluta*) sp. 57, f. 108.

Hab. Tatiyama.

2. *L. cassidula*, Rve., Sow. Thes. Conch. (*Voluta*) sp. 63, f. 130.

Hab. Kino-O-Sima.

Genus VOLUTOMITRA, Gray.

- V. pusilla*, Schrenck (*Voluta*), Moll. Amur-Landes, pl. 17. f. 13, 15.

Hab. Hakodadi Bay (*Schr.*).

Fam. Cassididæ.

Genus SEMICASSIS, Klein.

- S. japonica*, Rve. (*Cassis*), Conch. Icon. sp. 23.

Hab. Tatiyama, Tsusaki, 37 fathoms.

Genus PHALIUM, Link.

- P. strigatum*, Linn. (*Buccinum*), Syst. Nat. p. 3477; Rve. Conch. Icon. (*Cassis*) sp. 26.

Buccinum rugosum, Gm.

Cassis undata, Mart.

— *zebra*, Lamk.

Cassidea areola, Brug. (not Linn.).

Hab. Mososeki, 7 fathoms; Seto-Uchi (Idsuma-Nada).

Genus CASMARIA, H. & A. Ad.

- C. vibex*, Linn. (*Buccinum*), Syst. Nat. ed. 12.

(Var.) *B. erinaceus*, Linn.

Hab. Tatiyama.

A large variety, with the outer lip not denticulate at the margin.

Genus MORUM, Bolt.

- M. (Oniscidea) cancellatum*, Sow. (*Oniscia*), Genera of Shells, gen. *Oniscia*, f. 1-3; Rve. Conch. Icon. sp. 4.

Cassidaria cancellata, Kien (not Lamk.).

Hab. Gotto, 71 fathoms.

A variety, smaller, more pyriform, the inner lip more granulated, and the outer lip more reflexed and more lirate than the normal form.

Fam. *Doliidæ*.

Genus *DOLIUM*, Browne.

- D. australe*, Chemn. (*Buccinum*), Rve. Conch. Icon. (*Dolium*)
sp. 10.

Buccinum chinense, Dillw.

— *variegatum*, Phil. (not Lamk.).

D. Kieneri, Phil.

In Japanese, "Cimbu."

Hab. Hakodadi, Yokohama, Simoda.

Genus *LAGENA*, Klein.

1. *L. clandestina*, Chemn. (*Murex*), Lamk. An. s. Vert. vol.
ix. p. 639.

Triton clandestinus, Rve. Conch. Icon. sp. 13.

Buccinum cincticulum, Meusch.

Nept. doliata, Bolt.

Hab. Kino-O-Sima.

2. *L. rostrata*, Mart. (*Dolium*) pl. 3. f. 1083.

Fusus cutaceus, Lamk.

Cassidaria cingulata, Lamk.

Tritonium undosum, Kien.

Hab. Simidsu.

Fam. *Sycotypidæ*.

Genus *SYCOTYPUS*, Browne.

1. *S. reticulatus*, Lamk. (*Pyrula*), Hist. An. s. Vert. vol. ix.
p. 510.

Hab. Kuro-Sima.

2. *S. papyraceus*, Say (*Ficula*).

Hab. Kuro-Sima, Simoda, Satanomosaki.

L.—*List of Coleoptera received from Old Calabar, on the
West Coast of Africa.* By ANDREW MURRAY, F.L.S.

[Continued from vol. ii. p. 111.]

LONGICORNS.

The Lamellicorns are the group which I meant to take next; but my friend M. Candèze, of Liège, who has latterly paid much attention to that group, having been kind enough